

1-STEP EQUATIONS

name _____

I. Checking Solutions

per. _____ date _____

Is the given value a solution for the equation/inequality? (answer YES or NO).

***SHOW WORK:** substitute the value into the equation/inequality & see if you have a true or false statement.

1) $x - 12 = 8$ if $x = 4$

2) $x \div 5 = -10$ if $x = -50$

3) $4m - 9 = 37$ if $m = 12$

$$\underline{4} - 12 = 8? \text{ NO}$$

4) $\frac{w}{5} + 6 = 13.4$ if $w = 37$

5) $3m + 6 = 5m - 24$ if $m = 15$

6) $4(2h - 8) - 12 = 16$ if $h = 30$

$$3 \cdot \underline{15} + 6 = 5 \cdot \underline{15} - 24?$$

$$51 = 51? \text{ YES}$$

7) $6v < 48$ if $v = 10$

8) $f - 5 \leq 16$ if $f = 11$

9) $4c - 2 > 14$ if $c = 4$

10) $4j - 7 \leq 6j + 5$ if $j = 4.6$

11) $11n \neq 30$ if $n = 12$

12) $4(2x + 3) + 2x = 8x - 6$, $x = -9$

Solve the following by arranging into layers & doing the opposite operation to both sides.

13.) $x + 6 = 10$

$$\underline{-6} \quad \underline{-6}$$

$$\underline{x = 4}$$

14.) $m - 3.5 = 9.2$

15.) $2m = 27$

16.) $f \div 4 = 8$

17.) $k + 55 = 22$

18.) $m - 3.5 = -3.2$

19.) $-2n = 20$

20.) $\frac{m}{5} = 30$

21.) $w - (-8) = 6$

22.) $y - 5\frac{3}{8} = 10\frac{3}{4}$

23.) $5c = 26.8$

24.) $\frac{p}{1.8} = 9.2$

25.) $x + 16 = -15$

26.) $m - (-5) = 92$

27.) $-5m = -44$

28.) $f \div 2 = -6$

29.) $x + (-6) = -24$

30.) $m - 16 = -45$

31.) $-\frac{2}{5}v = 14$

32.) $\frac{p}{12} = -30$